

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,208	07/03/2003	Charles P. Barber	283-263 CON	4590
7	590 06/30/2005		EXAM	INER
Eric M. Smith			FRECH, KARL D	
WALL MARJ	AMA & BILINSKI LLP			
Suite 400			ART UNIT	PAPER NUMBER
101 S. Salina St.			2876	
Syracuse, NY 13202			DATE MAILED: 06/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Own		10/613,208	BARBER				
	Office Action Summary	Examiner	Art Unit				
		Karl D. Frech	2876				
Period fo	The MAILING DATE of this communication apor Reply	pears on the cover sheet with the c	orrespondence address				
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reproportion of the provision of the provis	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status -							
1)⊠	Responsive to communication(s) filed on <u>01 A</u>	April 2005.					
2a)□	· · · · · · · · · · · · · · · · · · ·	s action is non-final.					
3)	<u> </u>						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	I)⊠ Claim(s) <u>1-38</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5)☐ Claim(s) is/are allowed. 6)☑ Claim(s) <u>1-38</u> is/are rejected. 7)☐ Claim(s) is/are objected to.						
6)⊠							
7)							
8)[]							
Applicat	ion Papers						
9)[The specification is objected to by the Examine	er.					
10))│□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.				
Priority ι	under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a)	-(d) or (f)				
	a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa	te atent Application (PTO-152)				
	r No(s)/Mail Date <u>1/05&4/05</u> .	6) Other:	, ,				

Application/Control Number: 10/613,208

Art Unit: 2876

1. Applicant's amendment filed 4/1/05 has been considered.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Page 2

- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 1-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over O'Hagan et al 5,821,513 and Bunte et al 6,034,379, and Plesko 5,880,452. O'Hagan discloses in figure 4 as described in column 6 line 20 column 7 line 27, a scanning mechanism including a two dimensional photo sensing array 170 mounted on a circuit board 146. Also disclosed are illumination means 44 including LED's 180, targeting LED's 188,186 mounted on circuit board 146 which project targeting beams through an aperture in board 189. There is disclosed an image processor 120 mounted on the circuit board. As seen in the figure, the entire circuit board apparatus is enclosed and mounted within a housing including back and sidewalls 162. O'Hagan discloses that his

elements are mounted on four circuit boards, not a single circuit board as claimed when interpreted in lights of applicants disclosure. Bunte discloses in figures 19, and in column 28 lines 22+ an imaging module with an illuminator array 1947 and a sensor assembly 1949. It is disclosed in column 27 lines 35+ that the sensor assembly comprises a photo array 1929 that captures a 2-D image of the code being imaged. It is disclosed in column 27 lines 7+ that the illuminator is a LED array, i.e. a plurality of individual light sources. These LED's illuminate and therefore are functional to aim the imaging sensor. There are disclosed elements 1973,1975,1977,1979 for mounting the circuit board within the larger housing of the imaging sensor, i.e. framework and housing. There is disclosed a planar optical element as window 1919. It would have been obvious to one of ordinary skill in the art at the time of the invention to mount the illumination array of Bunte in the apparatus of O'Hagan. This would physically create a single "aiming" line upon which a user can rely upon for proper aiming and alignment of the combined apparatus. O'Hagan and Bunte do not disclose the single circuit board as claimed. Plesko discloses, as seen in figure 1, an optical scanner, with a single scanning line, and a planar window 11, in which all elements, including the scanning module, are "mounted" on a single circuit board. It would have been obvious to one of ordinary skill in the art at the time of the invention to mount all the elements of an optical scanner on a single circuit board as taught by Plesko in order to achieve a thin geometry to fit within a circuit card body. O'Hagan, Bunte and Plesko do not specifically disclose the specific housing details as claimed of the "finger" mounting as claimed. Mounting "fingers" remain old and well known, as are "recesses" and alignment means

Page 3

Application/Control Number: 10/613,208

Art Unit: 2876

in electronic equipment enclosing circuit boards. It would have been obvious to one of ordinary skill in the art at the time of the invention to mount the board of O'Hagan using mounting "fingers" and providing "recesses" for alignment in the housing of O'Hagan.

This would reduce the cost of mounting while providing for a physically secure package.

Page 4

- 5. Applicant's lengthy arguments with respect to claims 1-35 have been considered but are most in view of the new ground(s) of rejection. The examiner has reviewed the entirety of applicant's arguments. Applicant suggests that O'Hagan and Bunte do not teach all the elements are mounted on a single circuit board. The examiner agrees. However, Plesko has now been applied showing this feature.
- 6. Applicant request support for the examiner's holding of official notice regarding mounting fingers. Ramey et al 5,476,387 discloses such fingers, see column 1 line 54+ and column 4 lines 29+.
- 7. Since the rejection has been changed due to no amendment by the applicant, this action is not made final.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl D. Frech whose telephone number is (571) 272-2390. The examiner can normally be reached on maxi-flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on (571) 272-2398. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/613,208

Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 2876

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Karl D Frech

Primary Examiner

Page 5

Art Unit 2876
